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Perich et al.

[11] Patent Number: **5,983,557**[45] Date of Patent: **Nov. 16, 1999**[54] **LETHAL MOSQUITO BREEDING CONTAINER**[75] Inventors: **Michael J. Perich, Frederick; Brian C. Zeichner**, Forest Hill, both of Md.[73] Assignee: **The United States of America as represented by the Secretary of the Army**, Washington, D.C.[21] Appl. No.: **08/965,518**[22] Filed: **Nov. 6, 1997**[51] Int. Cl.⁶ **A01M 1/20; A01M 1/02**[52] U.S. Cl. **43/107; 43/131; 43/132.1**[58] Field of Search **43/107, 124, 131, 43/132.1; 119/6.5, 6.6, 6.7**[56] **References Cited****U.S. PATENT DOCUMENTS**

794,637	7/1905	Park et al.	.....	43/131
1,577,351	3/1926	Alvarez	.....	43/131
1,714,666	5/1929	Gring	.....	43/131
1,831,476	11/1931	Bennett	.....	43/124
1,936,644	11/1933	Schroder	.....	43/121
1,974,549	9/1934	Spencer et al.	.....	119/6.5
2,109,642	3/1938	Hunt	.....	43/124
2,254,948	9/1941	Kubalek	.....	43/131
2,539,633	1/1951	Morrill	.....	119/6.5
2,573,672	10/1951	Reinhardt	.....	43/131
2,970,565	2/1961	Reynolds	.....	119/6.5
3,224,145	12/1965	Ballard	.....	43/131
3,643,371	2/1972	Gordon	.....	43/131
3,997,999	12/1976	Evans	.....	43/107
4,002,146	1/1977	Neff	.....	119/51.04
4,019,459	4/1977	Neff	.....	119/223
4,103,450	8/1978	Whitcomb	.....	43/131
4,218,843	8/1980	Clarke, Jr.	.....	43/131
4,228,614	10/1980	Cardarelli	.....	43/131
4,310,985	1/1982	Foster et al.	.....	43/131
4,328,636	5/1982	Johnson	.....	43/107
4,563,344	1/1986	Kotz et al.	.....	43/132.1

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

403206836	9/1991	Japan	.....	43/107
404179426	6/1992	Japan	.....	43/107
2011343	4/1994	U.S.S.R.	.....	43/107
2080686	2/1982	United Kingdom	.....	43/124

OTHER PUBLICATIONS

Obaldia, "Aedes aegypti resting preference on untreated and deltamethrin-treated crepe paper and plastic foam surfaces," J. of the Amer. Mosquito Control Assc., Mosquito Vector Symposium, vol. 12, No. 3, pp. 467-468 (Sep. 1996).

Ikeshoji, "Surfactants for a mosquito trap," Jap. J. Sanit. Zool., vol. 28, No. 4, pp. 451-452 (1977).

Lok, "An autocidal ovitrap for the control and possible eradication of Aedes aegypti," Southeast Asian J. Trop. Med. Pub. Hlth., vol. 8, No. 1, pp. 56-62 (Mar. 1977).

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ABSTRACT

Provided is a breeding container which is adapted to be lethal to container breeding mosquitoes which contains:

a walled structure defining an internal volume, the walled structure being constructed and arranged to contain an aqueous liquid within at least a portion of the internal volume;

at least one opening in the walled structure disposed so as to allow mosquitoes to enter the walled structure; mosquito egg laying structure in the internal volume constructed and arranged such that female mosquitoes contact a surface of the mosquito egg laying structure; and

an insecticide that is lethal to mosquitoes present in an amount sufficient to kill the female mosquitoes in contact with the surface. Also provided is a lethal mosquito breeding container kit and a method for controlling the population of container breeding mosquitoes.

35 Claims, 5 Drawing Sheets